

CLAIMS:

1. A nozzle for combining flows of a first component and a second component, the second component being delivered at a pressure, the nozzle comprising:

a nozzle body;

5 a first component passage in the nozzle body;

an output extension having an opening communicating with the first component passage, a first end of the output extension extending from the nozzle body; and

a second component passage in the nozzle body;

10 wherein a flow of the first component is discharged from the first end of the output extension, and wherein the second component passage directs a flow of the second component into the discharged flow of the first component.

2. The nozzle of claim 1, wherein the output extension includes a first component transfer tube.

15 3. The nozzle of claim 1, wherein the second component passage has a directing opening, the directing opening directing the flow of the second component.

4. The nozzle of claim 1, the nozzle further comprising:

a second component tube receivable in the second component passage.

5. The nozzle of claim 4, wherein the second component tube includes a directing opening, the directing opening directing the flow of the second component.

20 6. The nozzle of claim 5, wherein the second component passage has a threaded inner surface, wherein the second component tube has a threaded outer surface portion, and wherein the threaded outer surface portion of the second

component tube is threadably matable with the threaded inner surface portion of the second component passage.

7. The nozzle of claim 1, wherein the flow of the second component forms a plume, and wherein the first end of the output extension is located in the plume of the
5 second component.

8. The nozzle of claim 7, wherein the plume of the second component produces a low pressure draw of the first component from the output extension.

9. The nozzle of claim 8, wherein the pressure of the second component varies, and wherein the low pressure draw of the first component from the output extension
10 varies with variation of the pressure of the second component.

10. The nozzle of claim 1, wherein the directed flow of the second component atomizes the first component in the discharged flow of the first component.

11. The nozzle of claim 1, wherein the output extension is a fuel tube.

12. The nozzle of claim 1, wherein the first component passage has a threaded
15 inner surface portion.

13. The nozzle of claim 1, wherein the output extension has a threaded outer surface portion, the threaded outer surface portion of the output extension being threadably matable with the threaded inner surface portion of the first component passage.

20 14. The nozzle of claim 1, further comprising:
a first fitting attachable to the nozzle body, the first fitting having a first fitting passage.

15. The nozzle of claim 14, wherein, upon attachment of the first fitting to the nozzle, the first fitting passage communicates with the first component passage of the nozzle body .

5 16. The nozzle of claim 14, wherein the first fitting has a first threaded end and a second threaded end.

17. The nozzle of claim 14, wherein the first fitting has a drivable body portion.

18. The nozzle of claim 15, wherein the nozzle body has a first threaded fitting portion, and wherein the first threaded end of the first fitting is attachable to the nozzle body via the first threaded fitting portion.

10 19. The nozzle of claim 14, wherein the second threaded end of the first fitting is attachable to a threaded coupling of a fuel line.

20. The nozzle of claim 1, further comprising:

a second fitting attachable to the nozzle body.

21. The nozzle of claim 1, wherein the first component is fuel.

15 22. The nozzle of claim 1, wherein the second component is an oxygen enhancer.

23. The nozzle of claim 22, wherein the oxygen enhancer is nitrous oxide.

24. The nozzle of claim 1, wherein the second component is delivered from a bottle.

20 25. The nozzle of claim 24, wherein the pressure of delivery of the second component varies with varying bottle pressure.

26. The nozzle of claim 1, further comprising:

a threading on the exterior of the nozzle body, the threading being matable with a threading for a delivery coupling.

27. The nozzle of claim 26, wherein the delivery coupling couples the nozzle to a throttle body for an engine.

5 28. A nozzle for combining flows of a first component and a second component, the second component being delivered at a pressure, the nozzle comprising:

 a nozzle body;

 a first component passage in the nozzle body;

 a first component transfer tube receivably located in the first component
10 passage, a first end of the first component transfer tube extending from the nozzle body;
 and

 a second component passage in the nozzle body, the second component
passage having a directing opening;

 wherein a flow of the first component is discharged from the first end of the first
15 component transfer tube, wherein the second component passage directs a flow of the
second component via the directing opening, wherein the flow of the second component
forms in plume, and wherein the plume encompasses the first end of the first
component transfer tube.

 29. A method for combining flows of a first component and a second component
20 via a nozzle, the second component being delivered at a pressure, the method
comprising:

transmitting the first component via a transfer tube fittably received in a first component passage in the nozzle, a first end of the transfer tube extending from the nozzle;

5 transmitting the second component via a second component passage in the nozzle;

discharging a flow of the first component from the first end of the first component transfer tube; and

directing a plume flow of the second component, the plume flow encompassing the first end of the transfer tube.

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